

2003-Air Show Mountain Home

AED

USAF Thunderbird (F-16)

Aircraft Crash

14 Sept 03

BE Flight



OVERVIEW

- **Background Information**
- **Hazardous Components of an F16 Aircraft**
- **Sample Results**
 - Area Samples
 - Personal Samples



Background Information

- **USAF Thunderbird F-16 Crash-2003 Air Show:**
 - *14 Sept 03 @ 1515*
 - *Near Control Tower*
 - *South of Flight-line*
- **Pilot Ejected Safely**
- **No AF Members/Spectators/1st Responders were Injured**



Background Information

- **BE Flight Responsible for:**
 - All 1st Responder-Occupational Health Protection
 - All Crash Recovery-Forces Occupational Health Protection
 - All Crash Recovery-Forces Occupational Health Sampling
 - Environmental sampling, with CEV as lead
- **Bottom Line:**
 - No one hurt
 - No one overexposed
 - “Textbook” Joint Response with Base Partners CEX, CEF, CEV, Comm, etc



F-16 Airframe Materials

F-16.7

AIRFRAME MATERIALS

WARNING

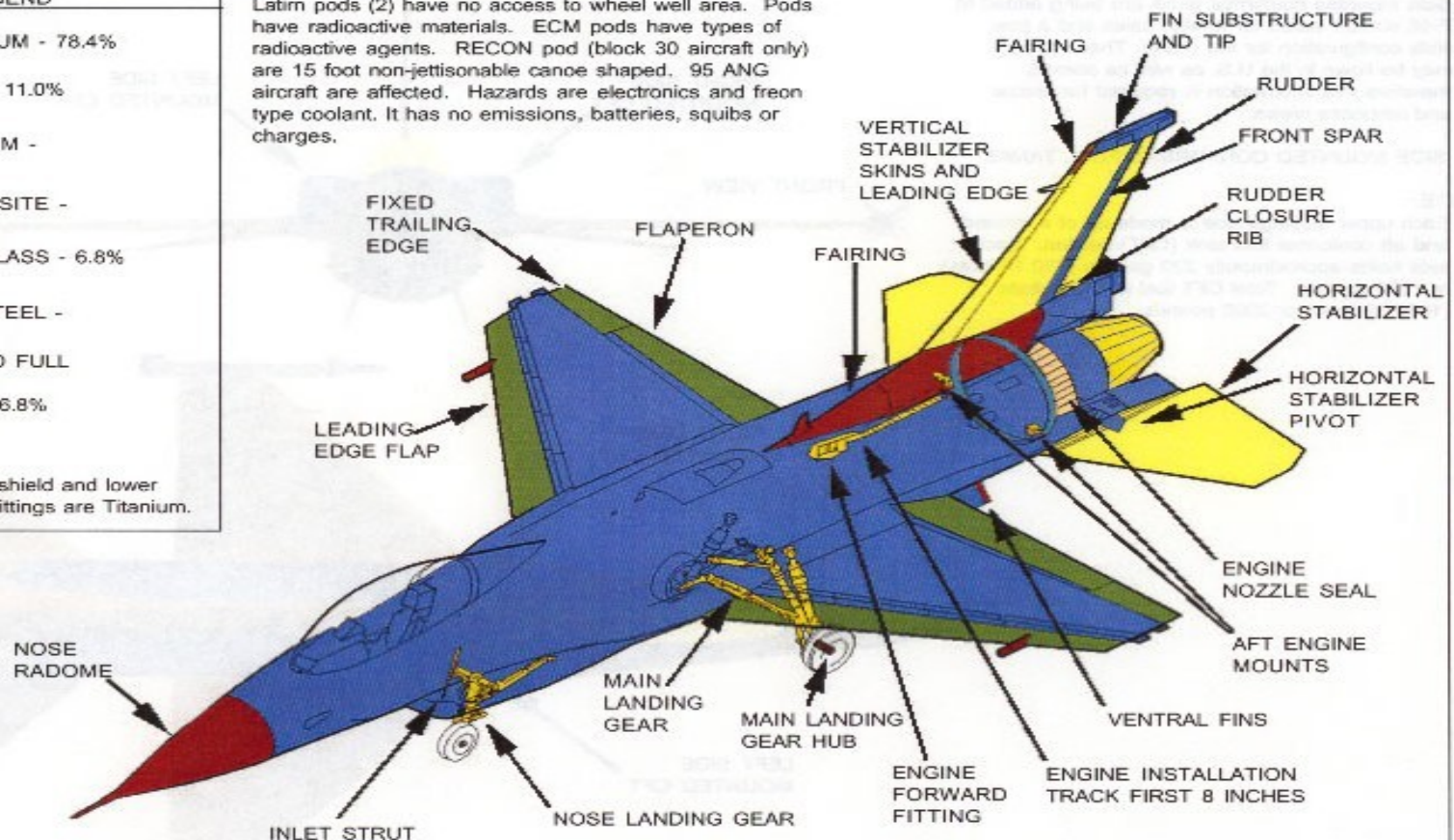
Latrim pods (2) have no access to wheel well area. Pods have radioactive materials. ECM pods have types of radioactive agents. RECON pod (block 30 aircraft only) are 15 foot non-jettisonable canoe shaped. 95 ANG aircraft are affected. Hazards are electronics and freon type coolant. It has no emissions, batteries, squibs or charges.

LEGEND

- ALUMINUM - 78.4%
- STEEL - 11.0%
- TITANIUM - 0.8%
- COMPOSITE - 3.0%
- FIBERGLASS - 6.8%
- M300 STEEL - 6.8%
- BONDED FULL DEPTH CORE - 6.8%

NOTE:

Engine heat shield and lower wing attach fittings are Titanium.



F-16

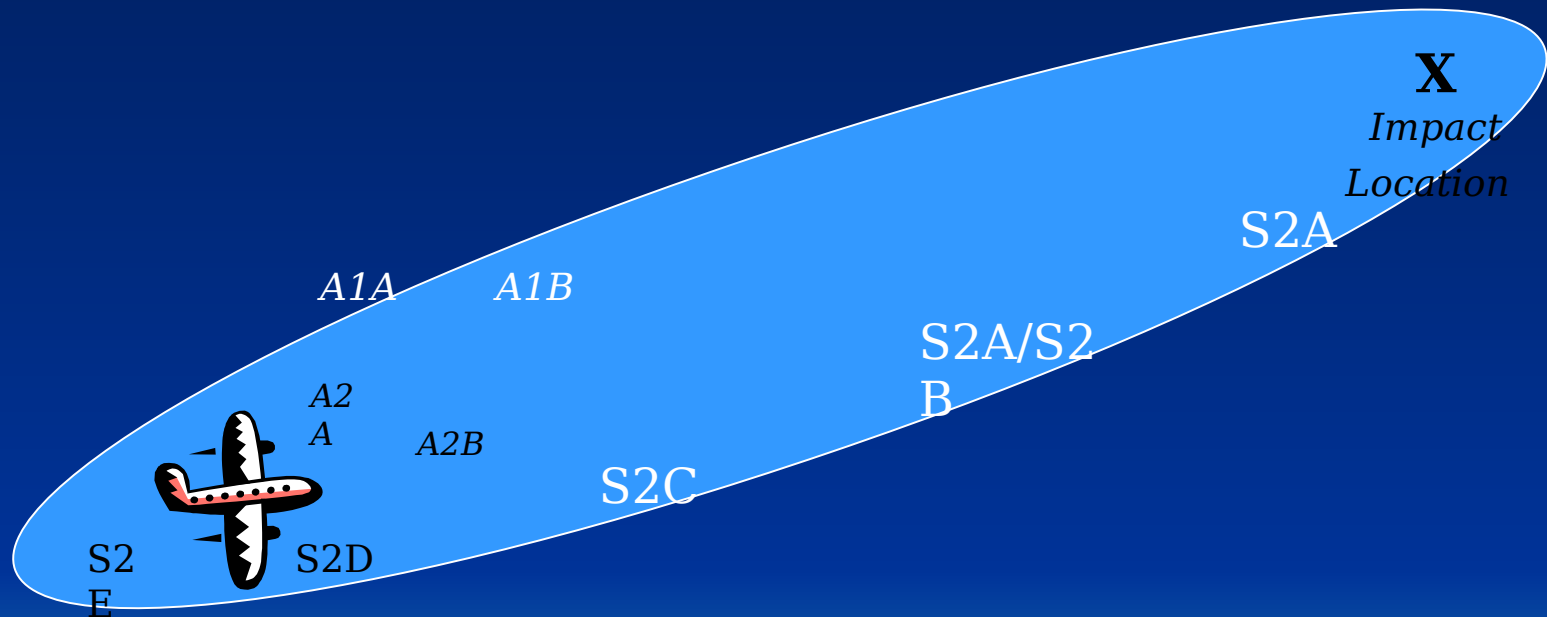
T.O. 00-105E-9

Sampling Point Locations at Crash Site

ECP

S1A

S1B



Air-Traffic Control
Tower

Sample Results- Area Samples

- **Entry Control Point (ECP)**
- **Impact Locations**
- **F-16 Removal**



Area Samples

- **Bottom Line:**
 - *No Asbestos detected*
 - *Extremely low levels of other fibers detected - no health threat*
 - *No AF Member overexposed*



***Area Samples-
ECP Locations
14 Sept 03***



Area Sample Results

Summary-ECP Locations

14 Sept 03

Sampling Analyte	Analytical Method	8-Hr TWA Results (f/cc)	8-Hr OEL (f/cc)	Above Results (y/n)
Asbestos	7402-TEM	N/D	0.1	N
All Other Fibers	7402-TEM	0.00000000 4-0.000175	N/A	N/A

***Area Samples-
Impact Locations
15 Sept 03***



Area Sample Results Summary

Impact Locations -15 Sept

Sampling Analyte	Analytical Method	8-Hr TWA Results (f/cc)	8-Hr OEL Results (f/cc)	Above Results (y/n)
Asbestos	7402-TEM	N/D	0.1	N
All Other Fibers	7402-TEM	0.00000000 4-0.0001	N/A	N/A

Notes:

-- All Other Fibers contain
Aluminum Silicate, Organic & Silicon

--8 Hr-TWA: Time Weighted
Average

--8 Hr-OEL: Occupational
exposure Limit

--f/cc: fibers per cubic
centimeter

--N/D: None Detected

Area Samples-

F-16 Removal
(Impact Locations)

21 Sept 03



Area Sample (1-10 Removal)

Results Summary-21 Sept

Sampling Analyte	Analytical Method	8-Hr TWA Results (f/cc)	8-Hr OEL Results (f/cc)	Above Results (y/n)
Asbestos	7402-TEM	N/D	0.1	N
All Other Fibers	7402-TEM	0.00000000 4-0.0003	N/A	N/A

Notes:

-- All Other Fibers contain Aluminum Silicate, Boron & Silicon

--8 Hr-TWA: Time Weighted Average

--8 Hr-OEL: Occupational exposure Limit

--f/cc: fibers per cubic centimeter

--N/D: None Detected

Personal Samples



Personal Samples

- **Bottom Line:**

- *Personnel lifted/loaded F-16 by crane onto a flatbed trailer to be transported to hangar during the afternoon session*
- *No Asbestos detected*
- *Extremely low levels of other fibers detected – no health threat*
- *No AF Member overexposed*



Personal Sample Results Summary 21 Sept 03

Sampling Analyte	Analytical Method	8-Hr TWA Results (f/cc)	8-Hr OEL Results (f/cc)	Above Results (y/n)
Asbestos	7402-TEM	N/D	0.1	N
All Other Fibers	7402-TEM	0.000003-0.000004	N/A	N/A
Respirable Particulates	0600-Respirable	0.13	3.0	N

Notes:

-- All Other Fibers contain Aluminum Silicate, Organic & Man-made

--8 Hr-TWA: Time Weighted Average

--8 Hr-OEL: Occupational exposure Limit

--f/cc: fibers per cubic centimeter